#### MAC/IECA

# STATUS and SUMMARY of THE TMDL PROGRAM

September 6-8, 2000

# **Total Maximum Daily Loads**

- Critical program for achieving healthy watersheds and clean water nationwide
  - States report over 40 percent of assessed waters are still too polluted for fishing or swimming even after 28 years of water pollution control efforts
- What is a TMDL?
  - The amount of a pollutant that a waterbody can receive and still meet water quality standards

September 6-8, 2000

## Clean Water Act Requires . . .

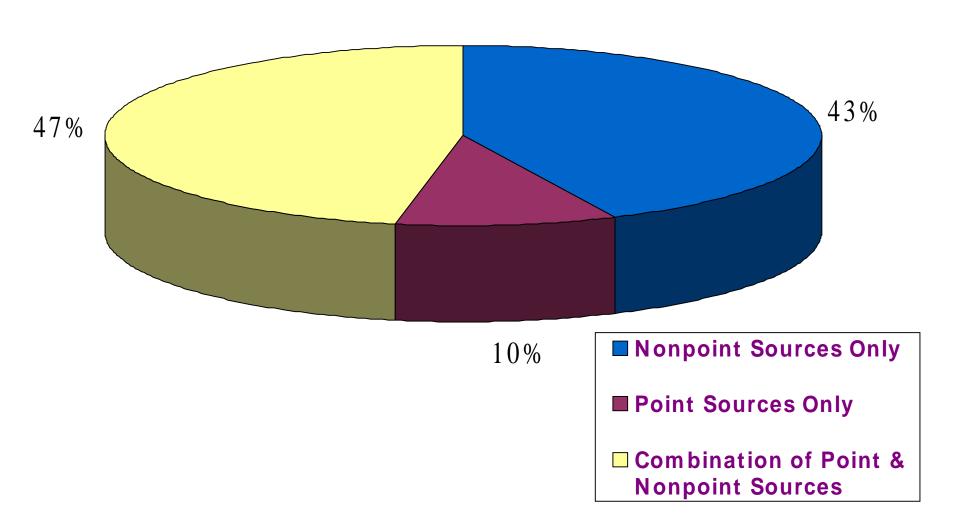
- As enacted in 1972, §303(d) of the Clean Water Act requires States to:
  - Identify waters not meeting State water quality standards -- §303(d) list
  - Set priorities for TMDL development
  - Develop a TMDL for each pollutant for each listed water
- EPA to approve or disapprove State submissions, and if disapproved, to act in lieu of State

### What do §303(d) lists tell us?

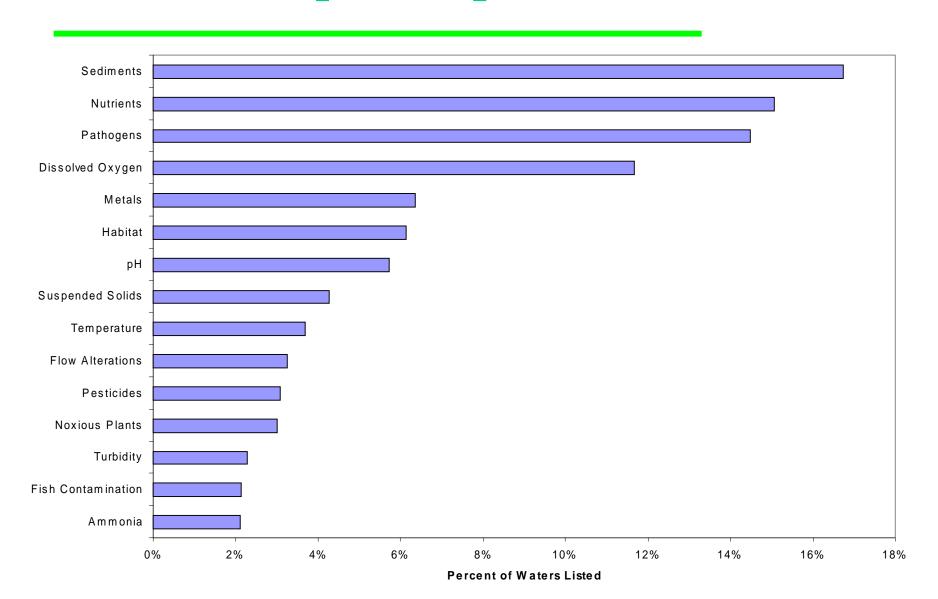
- 218 million Americans live within 10 miles of an impaired waterbody
- States have identified about 21,000 polluted river segments, lakes, and estuaries
  - Over 300,000 river & shore miles & 5 million lake acres
  - Excess sediments, nutrients, and harmful microorganisms are leading reasons

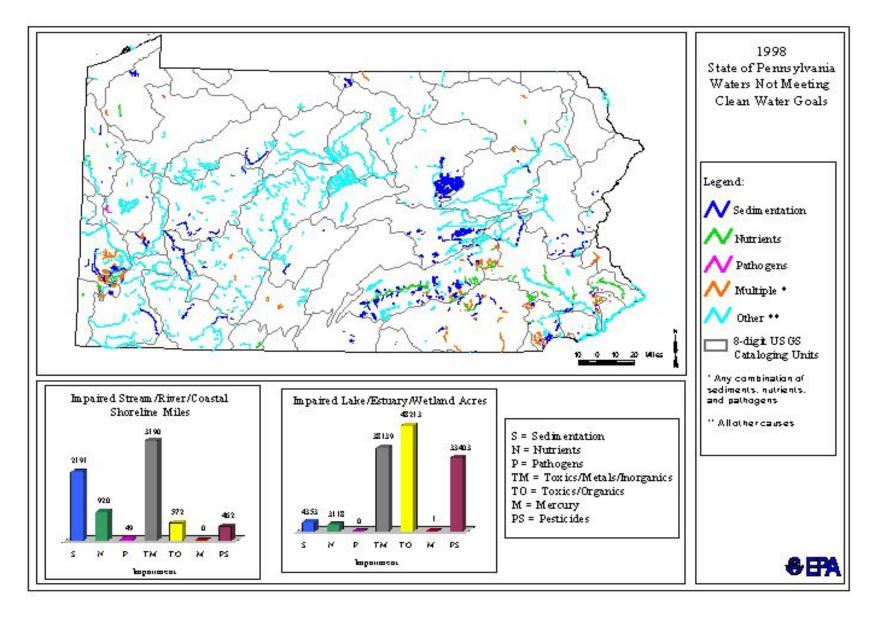
September 6-8, 2000

# Sources of Impairment by Category from the 1998 303(d) List



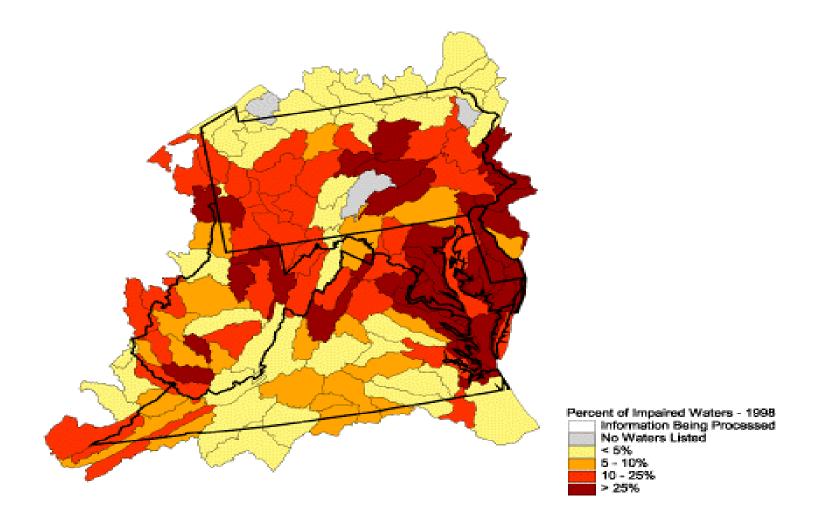
# **Top 15 Impairments**



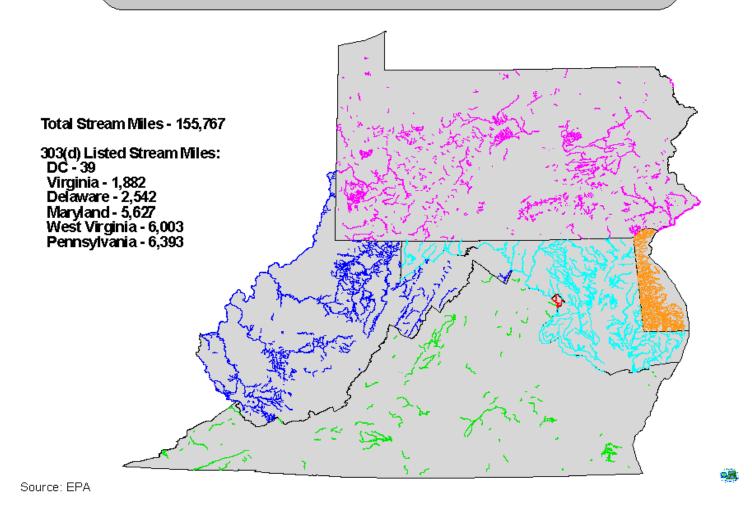


September 6-8, 2000

# **Percent of Impaired Waters**



#### 14% of Region III's Streams Require TMDLs



September 6-8, 2000

#### **TMDLs - The Pollutants of Concern**

- PA (1039 waters)
  - metals 413 siltation 315 nutrients 217
    - AMD = 36% agriculture 22% urban runoff 9%
- WV (722 waters)
  - metals 454 pH 305 unknown 98
    - AMD 69% unknown 18% acid rain 8%
- VA (891)
  - shellfish 290 Fecal 179 benthic 115
    - NPS 44% unknown 19% agriculture 11%

#### TMDLs - The Pollutants of Concern

- MD (198)
  - nutrients 145 Sediment 98 Fecal 51
    - NPS 46% natural 34% point sources- 14%
- DE (377)
  - habitat 179 nutrients 138 pathogens 126
    - NPS 90% Point 8% superfund 2%



**Forest Harvesting** 



**Construction Site** 



**Improper Erosion Controls** 



**Lack of Stream Buffers** 

# **Regulatory History**

- 1985 -- TMDL regulations first issued
  - Provisions included nonpoint sources and load allocations
- 1992 -- TMDL regulations revised
  - Provisions called for State lists every two years
- 1999 -- Revisions to TMDL and NPDES regulations proposed

## Regulatory History (cont)

- Final Rule published on July 13
- Congressional rider on military construction/supplemental appropriations prohibits EPA from implementing this rule
- TMDL program continues under 1992 regulations and agreements reached through litigation

### TMDL Litigation

- 45 legal actions in 37 States and DC
- EPA under court order/consent decree to ensure TMDLs are established in many States

#### • Issues:

- Lists -- adequacy, basis, underlying data
- Pace of TMDLs -- when will they all be done
- Backstop -- EPA guarantee to do TMDLs if a State does not

## 1992 Regulations

#### Scope of State lists

- Includes waters impaired or threatened by pollutants
- List composed of waters needing TMDLs
- Waters remain on the list until the TMDL is approved, or when water quality standards have been attained
- 2-year listing cycle
  - Submitted to EPA on April 1 in every even numbered year

- Methodology used to develop list
  - States use "all existing and readily available water quality-related information"
  - Monitored and evaluated data used
  - Methodology submitted at the same time as the list
  - If EPA asks, States must provide "good cause"
    for not including a water on the list.

- Components of a TMDL
  - Sum of allowable loads to meet water quality standards
    - Wasteload allocations from point sources
    - Load allocations from nonpoint sources and natural background
  - Margin of safety
  - Considers seasonal variation

- Priorities/Schedule for TMDL development
  - List must include priority ranking based on severity of pollution and uses to be made of the water
  - Identify pollutant of concern
  - State must identify waters targeted for TMDL development within the next 2 years

#### Public review

 State calculations to establish TMDLs must be subject to public review

#### EPA actions on lists and TMDLs

- EPA has 30 days to approve/disapprove State lists, priority ranking and targeting
- If EPA disapproves, it has 30 days to establish list or TMDL, and must seek public comment

- Interpretive guidance issued in 1997
  - States should develop schedules for establishing
    TMDLs, generally within 8-13 years of being listed
  - States should describe plan for implementing load allocations for nonpoint sources, including:
    - Reasonable assurances that load allocations will be achieved, using incentive-based, non-regulatory or regulatory approaches
    - Public participation process
    - Recognition of other watershed management processes and programs

## **EPA Objectives for the 2000 Rule**

- Establish effective and flexible framework to move the country toward goal of clean water for all Americans
- Establish process for making decisions in a common sense, cost-effective way on how best to restore polluted waterbodies

#### **Overview of 2000 Rule**

- Provides for a more comprehensive list of impaired waters
- Lists would be submitted every 4 years
- Impaired waters would remain on list until water quality standards are attained
- Public would be notified and have opportunity to comment on methodology, lists and TMDLs

#### Overview of 2000 Rule (cont.)

- Would strengthen efforts to put in place cleanup actions that result in attaining water quality standards
- NPDES permits could be revised to be consistent with the TMDL
- Sets goal of attaining water quality standards within 10 years, if possible

# **Current TMDL Program**

- 2000 final rule cannot be implemented
- 1992 regulations and interpretive guidance will govern the TMDL program
- Consent decrees or settlement agreements will guide TMDL development in many instances

#### **For More Information**

- TMDL homepage http://www.epa.gov/owow/tmdl
  - EPA guidance and documents
  - Status report on litigation
  - TMDL Federal Advisory Committee Report
  - Maps and information on impaired waters
  - Links to other TMDL websites, including States
  - Regulations